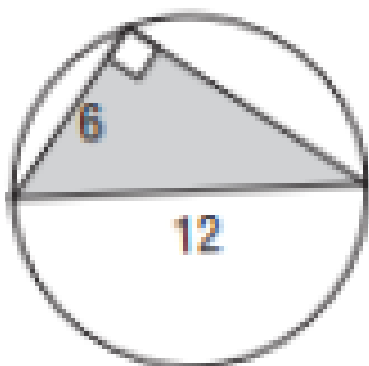


04/11/14 Agenda:

- Review Homework:
 - Worksheet 8 - Area of Complex Figures
 - Worksheet 9 - Geometric Probability
- Turn in any late work!**
- Review - Sections 11.1 - 11.7
- Homework
 - Review Packet
 - We will review it on Monday
 - It will be collected before the test Tuesday

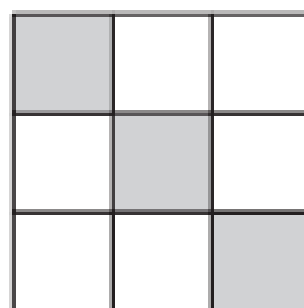
Warm Up - Get Your Homework Out!

What is the probability that a random point lies in the shaded section?



$\frac{\text{SHADED AREA}}{\text{TOTAL AREA}}$

$$A_0 = 36\pi = 113.04$$



$$\frac{3}{9} = \frac{1}{3}$$

$$A_{\Delta} = \frac{1}{2}bh$$

$$\frac{1}{2} \cdot 12 \cdot 6\sqrt{3}$$

$$18\sqrt{3} = 31.18$$

$$\frac{31}{113} = 28\%$$

Targets 11A, 11B, & 11C

- Areas of Parallelograms, Rectangles, & Squares

$$A_{\text{Parallelogram}} = b \cdot h$$

$$A_{\text{Rectangle}} = b \cdot h$$

$$A_{\text{Square}} = s^2 \text{ or } b \cdot h$$

Targets 11D, & 11E

- Areas of Rhombuses & Kites

$$A_{\text{Rhombus}} = \frac{1}{2} \cdot d_1 \cdot d_2 \text{ or } b \cdot h$$

$$A_{\text{Kite}} = \frac{1}{2} \cdot d_1 \cdot d_2$$

Target 11F

- Area of Triangles

$$A_{\text{Triangle}} = \frac{1}{2} \cdot b \cdot h$$

$$A_{\text{Equilateral Triangle}} = \frac{s^2 \sqrt{3}}{4}$$

Target 11G

- Area of Trapezoids

$$A_{\text{Trapezoid}} = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$$

Target 11H

- Areas of Regular Polygons

$$A_{\text{Regular Polygon}} = \frac{1}{2}aP, \quad \text{or} \quad = \frac{1}{2}a \cdot ns$$

$$A_{\text{Reg Hexagon}} = 6 \cdot \frac{s^2 \sqrt{3}}{4}$$

Target 11I

- Area and Circumference of Circles

$$\text{Circumference} = 2\pi r \quad \text{or} \quad \pi d$$

$$A_{\text{Circle}} = \pi r^2$$

Target 11J

- Area of Complex Figures & Geometric Probability

$$P(\text{Shaded Area}) = \frac{\text{Shaded Area}}{\text{Total Area}}$$

Unit 10 - Summary

$$A_{\text{Square}} = s^2 \text{ or } b \cdot h$$

$$A_{\text{Parallelogram}} = b \cdot h$$

$$A_{\text{Rectangle}} = b \cdot h$$

$$A_{\text{Rhombus}} = \frac{1}{2} \cdot d_1 \cdot d_2 \text{ or } b \cdot h$$

$$A_{\text{Kite}} = \frac{1}{2} \cdot d_1 \cdot d_2$$

$$A_{\text{Regular Polygon}} = \frac{1}{2} aP, \text{ or } = \frac{1}{2} a \cdot ns$$

$$A_{\text{Circle}} = \pi r^2$$

$$\text{Circumference} = 2\pi r \text{ or } \pi d$$

$$A_{\text{Triangle}} = \frac{1}{2} \cdot b \cdot h$$

$$A_{\text{Equilateral Triangle}} = \frac{s^2 \sqrt{3}}{4}$$

$$A_{\text{Trapezoid}} = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$$

$$A_{\text{Reg Hexagon}} = 6 \cdot \frac{s^2 \sqrt{3}}{4}$$

$$P(\text{Shaded Area}) = \frac{\text{Shaded Area}}{\text{Total Area}}$$
